



High solid coating compositions

Description of Technology: The invention relates to coating compositions based on a low molecular weight reactive compound with hydroxyl and amino groups, a cross-linking component and optionally, binders with functional groups containing reactive hydrogen. The coating compositions may in particular find application in vehicle and industrial coating.

Patent Listing:

1. **US Patent No. 7,022,778**, Issued April 4, 2006, "High solid coating compositions"
<http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnethtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F7022778>

Market Potential: Coating compositions based on hydroxy- and/or amino-functional binders and appropriate cross-linking components, in particular, those prepared from hydroxy-functional binders and polyisocyanate cross-linking agents, have long been known. The coatings obtained from these coating compositions are of high quality with very good resistance to chemicals and solvents and have a high level of optical and mechanical properties. In the light of environmental requirements, it is desired to keep the solvent content in solvent-containing coating compositions as low as possible and to increase the solids content. One known method of complying with such requirements is, for example, to use "reactive diluents" in the coating compositions.

Benefits:

- High quality with very good resistance to chemicals and solvents

Applications:

- Coating compositions based on a low molecular weight reactive compound with hydroxyl and amino groups

Contact: Ken Anderson

Director, Entrepreneurial & Small Business Support, Delaware Economic Development Office (DEDO)
Carvel State Building, 820 French Street, Wilmington, DE, 19801
Phone: (302) 577-8496, Fax: (302) 577-8499, Email: Kenneth.R.Anderson@state.de.us